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1 [Fostering IPv6 migration through network quality differentials](#)
[Roch Guérin](#), [Kartik Hosanagar](#)

 June 2010 **SIGCOMM Computer Communication Review**, Volume 40 Issue 3

Publisher: ACM

 Full text available: [PDF](#) (386.11 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 30, Downloads (Overall): 30, Citation Count: 0

Although IPv6 has been the next generation Internet protocol for nearly 15 years, new evidences indicate that transitioning from IPv4 to IPv6 is about to become a more pressing issue. This paper attempts to quantify if and how such a transition may unfold. ...

Keywords: IPv6, incentives, migration, quality

2 [IPv6 training in Europe](#)
[Franck Le Gall](#), [Fabrice Clari](#), [Caroline Garence](#), [Florence Falconetti Dumas](#)

 June 2010 **CompSysTech '10: Proceedings of the 11th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies**
Publisher: ACM [Request Permissions](#)

 Full text available: [PDF](#) (474.98 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Downloads (Overall): 4, Citation Count: 0

The situation regarding the current curricula landscape (actors, offer and needs) for the Future Internet Protocol (IPv6) in Europe is analysed. The results target establishment of scenarios to evaluate how actions aimed at developing the IPv6 training ...

Keywords: Europe, ICT, IPv6, internet, training, training providers

3 [A clean slate 4D approach to network control and management](#)
[Albert Greenberg](#), [Gisli Hjalmysson](#), [David A. Maltz](#), [Andy Myers](#), [Jennifer Rexford](#), [Geoffrey Xie](#), [Hong Yan](#), [Jibin Zhan](#), [Hui Zhang](#)

 October 2005 **SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM

 Full text available: [PDF](#) (313.74 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 181, Downloads (Overall): 1159, Citation Count: 52

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...

Keywords: control, network management, robustness

4 [IP is dead, long live IP for wireless sensor networks](#)
[Jonathan W. Hui](#), [David E. Culler](#)

 November 2008 **SenSys '08: Proceedings of the 6th ACM conference on Embedded network sensor systems**
Publisher: ACM [Request Permissions](#)

 Full text available: [PDF](#) (1.56 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 573, Downloads (Overall): 1319, Citation Count: 7

A decade ago as wireless sensor network research took off many researchers in the field denounced the use of IP as inadequate and in contradiction to the needs of wireless sensor networking. Since then the field has matured, standard links have emerged, ...

Keywords: 6lowpan, internet, internetworking, ip, ipv6, media management, network architecture, sensor networks, wireless

5 [Proceedings of the 2002 ACM/IEEE conference on Supercomputing](#)
[Roscoe Giles](#), [Kathryn Kelley](#), [Daniel Reed](#)

 November 2002 **Supercomputing '02: Proceedings of the 2002 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society Press

Additional Information:

[full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0


This 15th Annual SC conference brings together a worldwide community to celebrate its achievements and envision the future of high performance computing, networking, and data technologies. Our theme, "From Terabytes to Insights," emphasizes the opportunity ...

6 [Overhead and performance study of the general internet signaling transport \(GIST\) protocol](#)

Xiaoming Fu, Henning Schulzrinne, Hannes Ischofening, Christian Dickmann, Dieter Hogrefe

February 2009 **IEEE/ ACM Transactions on Networking (TON)**, Volume 17 Issue 1

Publisher: IEEE Press [Request Permissions](#)

Full text available:  [PDF](#) (1.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 160, Downloads (Overall): 253, Citation Count: 0


The General Internet Signaling Transport (GIST) protocol is currently being developed as the base protocol component in the IETF Next Steps In Signaling (NSIS) protocol stack to support a variety of signaling applications. We present our study on the ...

7 [Mitigating application-level denial of service attacks on Web servers: A client-transparent approach](#)

Mudhakar Srivatsa, Arun Iyengar, Jian Yin, Ling Liu

July 2008 **Transactions on the Web (TWEB)**, Volume 2 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available:  [PDF](#) (516.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 296, Downloads (Overall): 997, Citation Count: 0

Recently, we have seen increasing numbers of denial of service (DoS) attacks against online services and Web applications either for extortion reasons or for impairing and even disabling the competition. These DoS attacks have increasingly targeted the ...


Keywords: DoS Attacks, Web servers, client transparency, game theory

8 [Signalling analysis in integrated 4G networks](#)

Hakima Chaouchi, Ivan Armuelles, Ivan Gianchev, Máirtín O'Droma, Nino Kubinidze

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  [PDF](#) (517.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Downloads (Overall): 813, Citation Count: 0


Scarce radio resources and the ambition to increase the number of mobile customers with a guarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to ...

9 [IP next generation overview](#)

Robert M. Hinden

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Publisher: ACM [Request Permissions](#)

Full text available:  [PDF](#) (610.92 KB)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)


Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 216, Downloads (Overall): 2079, Citation Count: 1

10 [FLIP: a flexible interconnection protocol for heterogeneous internetworking](#)

Ignacio Solis, Katia Obraczka

August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [PDF](#) (549.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Downloads (Overall): 539, Citation Count: 1

This paper describes the Flexible Interconnection Protocol, or FLIP, whose main goal is to allow interconnection of heterogeneous devices with varying power, processing, and communication capabilities, ranging from simple sensors to more powerful computing ...


Keywords: flexible headers, heterogeneous networks, optimized headers, sensor networks

11 [Tarzan: a peer-to-peer anonymizing network layer](#)

Michael J. Freedman, Robert Morris

November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM [Request Permissions](#)

Full text available:  [PDF](#) (242.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 124, Downloads (Overall): 1467, Citation Count: 72

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...


Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

12 Robust header compression (ROHC) in next-generation network processors

David E. Taylor, Andreas Herkersdorf, Andreas Döring, Gere Gittmann

August 2005 **IEEE/ ACM Transactions on Networking (TON)** , Volume 13 Issue 4

Publisher: IEEE Press

Full text available:  Pdf (849.58 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 58, Downloads (Overall): 717, Citation Count: 2

Robust Header Compression (ROHC) provides for more efficient use of radio links for wireless communication in a packet switched network. Due to its potential advantages in the wireless access area and the proliferation of network processors in access ...


Keywords: ASIC, ASIP, FPGA, ROHC, hardware assist, header compression, network processor, reconfigurable hardware

13 Beyond technology: the missing pieces for QoS success

 Burgstahler, A., Delzer, C., Hauser, J., Jähner, S., Junghans, C., Macián, W., Payer

August 2003 **RIPQoS '03: Proceedings of the ACM SIGCOMM workshop on Revisiting IP QoS: What have we learned, why do we care?**

Publisher: ACM 

Full text available:  Pdf (207.99 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 70, Downloads (Overall): 1286, Citation Count: 3

Years of research on QoS architectures for IP networks have delivered sophisticated proposals, which have nevertheless not found broad commercial use. The reasons are not lack of technical soundness or insurmountable technological complexity, but insufficient ...


Keywords: Internetworking, Next Generation Internet, QoS

14 A performance comparison of Mobile IPv6, Hierarchical Mobile IPv6, fast handovers for Mobile IPv6 and their combination

 Xavier Pérez-Costa, Marc Torrent-Moreno, Hannes Hartenstein

October 2003 **SIGMOBILE Mobile Computing and Communications Review** , Volume 7 Issue 4

Publisher: ACM

Full text available:  Pdf (210.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 337, Downloads (Overall): 4009, Citation Count: 13


Mobile IP, the current IETF proposal for IP mobility support, represents a key element for future *All-IP* wireless networks to provide service continuity while on the move within a multi-access environment. We conducted a performance evaluation ...

15 Modelling layer 2 and layer 3 device bandwidths using B-node theory

S. Cikara, S. P. Mai, D. L. Shaw

January 2006 **ACSC '06: Proceedings of the 29th Australasian Computer Science Conference - Volume 48** , Volume 48

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (269.35 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 24, Downloads (Overall): 242, Citation Count: 0

Modern computer networks contain an amalgamation of devices and technologies, with the performance exhibited by each central to digital communications. Varieties of methods exist to measure and/or predict these performance characteristics. "Rule-of-Thumb" ...


Keywords: B-Nodes, bandwidth, modelling, performance

16 Developing network software and communications protocols towards the internet of things

 Bithanan Silveraiah, Jarmo Mänti

June 2009 **COMSWARE '09: Proceedings of the Fourth International ICST Conference on COMMunication System softWAre and middlewAre**

Publisher: ACM 

Full text available:  Pdf (894.74 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 272, Downloads (Overall): 272, Citation Count: 0


One of the most profound changes today is the increase in mobility of portable yet powerful wireless devices capable of communicating via several different kinds of wireless radio networks of varying link-level characteristics. This paper addresses how ...


Keywords: network application frameworks, protocol engineering

17 [Contact networking: a localized mobility system](#)

 [Casey Carter](#), [Robin Kravets](#), [Jean Fourrillhes](#)

May 2003 **MobiSys '03**: Proceedings of the 1st international conference on Mobile systems, applications and services

Publisher: ACM 


Full text available:  [Pdf](#) (232.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 357, Citation Count: 6


MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile node, but requires communication to take a multihop path through the node's Home Agent. Although a user with a multiple-interface mobile node may desire the ability ...

18 [The CHART system: a high-performance, fair transport architecture based on explicit-rate signaling](#)

 [Jack Brassil](#), [Rick McGeer](#), [Raj Rajagopalan](#), [Puneet Sharma](#), [Praveen Yalagandula](#), [Sulata Banerjee](#), [David P. Reed](#), [Sung-A. Lee](#)

January 2009 **SI GOPS Operating Systems Review**, Volume 43 Issue 1

Publisher: ACM

Full text available:  [Pdf](#) (678.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 115, Citation Count: 0

TCP/IP is known to have poor performance under conditions of moderate to high packet loss (5%-20%) and end-to-end latency (20-200 ms). The CHART system, under development by HP and its partners under contract to the US Defense Advanced Research Projects ...


Keywords: explicit-rate, flow-based routing, overlay, quality of service, virtualization

19 [A 3GPP system architecture evolution virtualized experimentation infrastructure for mobility prototyping](#)

[Miguel Gómez Rodríguez](#), [Fermín Galán Márquez](#), [Emilio J. Torres Mateos](#)

March 2008 **TridentCom '08**: Proceedings of the 4th International Conference on Testbeds and research infrastructures for the development of networks & communities

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available:  [Pdf](#) (1.71 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 116, Downloads (Overall): 241, Citation Count: 1

The 3GPP System Architecture Evolution (SAE) is a very attractive environment from the service provisioning perspective, thanks to the variety of access technologies and mobility features introduced. In such a diverse environment, experimentation infrastructures ...


Keywords: 3GPP system architecture evolution, IMS, testbeds, virtualization

20 [Identifying IPv6 network problems in the dual-stack world](#)

 [Kerwin Cho](#), [Matthew Luckie](#), [Bradley Huffaker](#)

September 2004 **NetT '04**: Proceedings of the ACM SIGCOMM workshop on Network troubleshooting: research, theory and operations practice meet malfunctioning reality

Publisher: ACM 

Full text available:  [Pdf](#) (291.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 103, Downloads (Overall): 981, Citation Count: 6




One of the major hurdles limiting IPv6 adoption is the existence of poorly managed experimental IPv6 sites that negatively affect the perceived quality of the IPv6 Internet. To assist network operators in improving IPv6 networks, we are exploring methods ...

Keywords: IPv6, delay measurement, dual-stack, path analysis, path visualization

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